User Guide BMECat 2005 for the creation of electronic Catalogs for E.ON Corporation

Version 1.5 (Updated 19.11.2014)

This document describes the generation and usage guidelines for catalog data formatted in BMECat 2005 for the eProcurement platform accessible on the E.ON intranet. This document is not meant to replace the BMECat 2005 specifications, but adds additional requirements. Further, it declares several former OPTIONAL elements as REQUIRED fields, if those are needed in the ordering process of the ERP system. In addition to the requirements in this documentation, all catalog data has to be valid under the specifications of the BMECat 2005 standard and its DTDs and the W3C Recommendation for XML data. Thus, only a subset of the fields described in BMECat are covered here.

A given product catalog is valid for utilization in E.ONs E-Procurement catalog if it adheres to the specifications listed here in addition to the required fields described in the BMECat 2005 specification. Any further data elements not mentioned here are not recognized by the catalog-software and are therefore not available in order transactions via this application.

This description refers to the BMECat transaction T_NEW_CATALOG, but also applies analogously to other BMECat transactions. Any new catalogs and updates to existing catalogs for use with E.ON should only use the transactions described in BMECat.

Parts of this document are based on the BMECat standard 2005, copyright 1998-2001, Fraunhofer IAO and the University of Essen BLI.

Errors in the Standards BMECat and eClass (for example insufficient category attributes) lie in the responsibility of the committees for BMECat and eClass. For further development of these standards, we would ask you to send us copies of any notes of such errors.

Sources:
BMECat http://www.bmecat.org
eClass: http://www.eclass.de
XML: http://www.w3.org/XML

You will find the most recent version of this document as well as example catalogs to download on this site:
http://service.comlineag.de/eon

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Change Log

Date	Version	Editor	Changes
2007-03-20	1.0	Lars Karschen	Initial Version, translated from German version 1.0
2007-11-14	1.1	Lars Karschen	Minor corrections
2010-04-19	1.2	Thomas Wahle	Adding E.ON Slovakia to description of REMARKS
2012-06-12	1.3	Lars Karschen	Amendments eCl@ss 7.0-Support
2013-11-21	1.4	Lars Karschen	Textual additions
2014-11-19	1.5	Lars Karschen	Added Product_Status „preferred“

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1 Online-Validation

You can validate your catalog data using our online-validation (http:/service.comlineag.de/eon). Please confirm that your catalogs are valid before you send them to us.

2 Catalog Upload

Catalogs sent to us for processing and approval should only be sent using the Upload Service available at http://service.comlineag.de/upload, Mime Data of considerable amount can also be sent via postal mail.

3 Naming Conventions

Please use the following naming convention when sending catalog-files:
<supplier-name>_<yyyymmdd>.xml

Example: *wisconsult_20010723.xml*

If you send us zip-compressed catalog data, please make sure the archive has the same name as the included file and has the proper ending (i. E. “zip”).

In case you send us more than one catalog file on the same day, make sure you number them consecutively:
<supplier-name>_<yyyymmdd>-<nr>.<file-type>

Example: *wisconsult_20010808-2.xml / wisconsult_20010808-2.zip*

Please use only alphanumeric characters, underscores or hyphen for the file name. Do not use any umlauts or non-alphanumeric characters (including space).

4 Usage of Fileheader for Catalog-Data

According to BMECat and W3C Recommendation

<*?xml version=”1.0” encoding=”UTF-8”?*>

<*!DOCTYPE BMECAT SYSTEM “bmecat_2005_tnc.dtd”*>

<*BMECAT version=“2005“ xmlns=“*http://www.bmecat.org/bmecat/2005*“*>

5 Usage of path names/directories in Mime_Root and Mime_Source

In Addition to the remarks for MIME_ROOT and MIME_SOURCE elements, please use a reasonable directory structure for the different mime objects.

Example:

<MIME_ROOT>supplierxy/mimes/</MIME_ROOT>

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Please use this structure when sending us volumes with the corresponding mime-objects, for Example:

supplierXY/mimes/pictures/normal/manufacturer1/all „normal“ pictures of manufacturer1.jpg
...
supplierXY/mimes/pictures/normal/manufacturerN/all „normal“ pictures of manufacturerN.jpg

supplierXY/mimes/pictures/thumbnail/manufacturer1/all „thumbnail“ pictures of manufacturer1.jpg
...
supplierXY/mimes/pictures/thumbnail/manufacturerN/all „thumbnail“ pictures of manufacturerN.jpg

supplierXY/mimes/factsheets/manufacturer1/all factsheets of manufacturer1.pdf
...
supplierXY/mimes/factsheets/manufacturerN/all factsheets of manufacturerN.pdf

Use those paths in your catalog data accordingly:

<MIME_SOURCE>pictures/normal/manufacturer1/sample_picture_of_manufacturer1.jpg</MIME_SOURCE>

and

<MIME_SOURCE>factsheet/manufacturer1/sample_factsheet_of_manufacturer1.pdf</MIME_SOURCE>

respectively.

Please note that all path names are case-sensitive. Use the same upper and lower case in your volumes as the catalog data to ensure proper display of all mime objects.

6 Transition from BMECat 1.2 to BMECat 2005

The elements described in this Document define the usage of the new elements included in BMECat 2005. With a few exceptions, the elements used in BMECat 1.2 are still valid, though deprecated. We recommend you to use the new elements if possible, coming updates to BMEcat will not include the old elements. In general, the changes include the transition from ARTICLE_…-elements to PRODUCT_…-elements, but there are a few other optional changes. Chapter 6 describes the new usage, specific changes from BMECat 1.2 to BMECat 2005 are labeled accordingly.

Please take note of those changes in particular

7 Usage of BMECat 2005 / eClass 7.0 or 5.1

Element	Usage
HEADER / CATALOG	Any XML-File must have a reference to the used encoding (UNICODE UTF-8) and it's referenced DTD. Please use the standard BMECat 2005 DTDs only.
LANGUAGE	According to BMECat, ("DEU", „CES", „DUT", „ENG", „HUN", „ITA", „SLO", „SWE")
CATALOG_ID	According to BMECat; never change the initial ID without prior consultation. Do not use any special characters, spaces or umlauts for the Catalog_ID.
CATALOG_VERSION	According to BMECat: for a new catalog, use a new version number and always assign it in ascending order. Do not use any special characters, spaces or umlauts for the Catalog_Version.
CATALOG_NAME	According to BMECat but required; never change the initial name without prior consultation
TERRITORY	According to BMECat, („DE", „CZ", „EN", „HU", „IT", „NL", „SE", „SK")
CURRENCY	According to BMECat, („EUR", „CZK", „HUF", „SEK")
MIME_ROOT	According to BMECat; use relative paths only, according to the mime objects on the volume (no paths like:. „\\myServer\pictures\..". or „http://someserver.com/pictures.."). If the picture "article4711.jpg" has the path "supplierXY/mimes/" on your CD, choose "supplierXY/mimes" for MIME_ROOT and "article4711.jpg" for MIME_SOURCE. Alternatively, leave MIME_ROOT empty and specify the complete path for every article, in that case ""supplierXY/mimes/article4711.jpg". Always use the same upper and lower case in MIME_ROOT and MIME_SOURCE according to the path names on your volume. Do not use double backslashes and do not use http-URLs or absolute paths. Do not alter a chosen path/directory for the mime objects without consultation. Change the names of mime objects only after consultation to avoid redundancy.
HEADER / BUYER	
BUYER_NAME	Fill this field with „E.ON AG"
HEADER / AGREEMENT	
AGREEMENT_ID	Fill this Field with the E.ON Agreement ID (request your ID if unknown). Do not change this value.

AGREEMENT_START_DATE	According to BMECat. The previous DATETIME-element is deprecated, please use the new AGREEMENT_START_DATE element instead.
AGREEMENT_END_DATE	According to BMECat, analogous to previous element
HEADER / SUPPLIER	Please use the integrated SUPPLIER-elements for defining the Supplier. The new element group PARTIES is currently not supported
SUPPLIER_ID	Different from BMECat, this field is MANDATORY. Fill with type=”duns”. The corresponding Dun & Bradstreet-Number is available on request.
SUPPLIER_NAME	According to BMECat; do not change this value without prior consultation. When first determining the supplier_name, please note that the supplier name is part of the article overview. You do not have to fill in the complete company name. Choose a short name, for example Wiscore rather than ThyssenKrupp Wiscore GmbH.
ADDRESS / CONTACT	Different from BMECat, this field is MANDATORY an has to contain the suppliers contact person. Fill with “First name Surname” without comma.
ADDRESS / PHONE	Fill this field with the phone number of the contact person.
ADDRESS / EMAIL	Fill this field with the mail address of the contact person. Do not use mailto:.
T_NEW_CATALOG	
TNC / CASSIFICATION_SYSTEM	Not applicable, the eClass classification system is used.
TNC / CATALOGGROUP_SYSTEM	Not applicable, the REFERENCE_FEATURE_GROUP_ID is used for catalog structure.
TNC / PRODUCT	Mode „new“, „update“ or „delete“ according to TRANSACTION, here: desciption for “new” and T_NEW_CATALOG only.

SUPPLIER_PID	According to BMECat; orders in the catalog software refer to the supplierPID, choose an unique ID for every article. Part numbers for article variants (VARIANTS) are not supported, please do not use article variants. Due to subsequent systems, this field should not exceed 22 characters. Do not use any special characters or umlauts for the SupplierPID. Please note: Through an Interface between E.ON and cc-chemplorer, catalog data can be exchanged (only usable for E.ON organisations). The maximum field length for the SUPPLIER_PID is 18 characters. Please refer to your E.ON Lead Buyer, whether your catalog data is also used via cc-chemplorer, and keep this limitation in mind.
TNC / PRODUCT / PRODUCT _DETAILS	
DESCRIPTION_SHORT	According to BMECat; the field length should not exeed 200 characters, the description should sufficiently describe the article (i.e. color, dimensions etc. should be included).
DESCRIPTION_LONG	According to BMECat; all relevant product information should be included (including the information from FNAME/FVALUE Tags). Articles with differing order units and content units, which are not specified through ORDER_UNIT, CONTENT_UNIT and NO_CU_PER_OU should be mentioned in the long description (e.g. 1 packet copying paper, 500 sheets per packet). The first 1500 characters are included in the search, please put important information at the beginning of the description.
INTERNATIONAL_PID type=ean / EAN	According to BMECat; The new definition INTERNATIONAL_PID will be used in future versions, EAN is deprecated, please use the new definition instead.
BUYER _PID type=	If known, fill with appropriate Central SAP Material Code for E.ON Energy or E.ON Ruhrgas. Fill attribute “type” with the valid values defined in Chapter 7
MANUFACTURER_PID	EXPECTED field, fill with appropriate manufacturer PID if possible. Due to subsequent systems, this value should not exceed 40 characters.
MANUFACTURER_NAME	EXPECTED field, fill with manufacturer name if appropriate. Due to subsequent systems, this value should not exceed 10 characters..
DELIVERY_TIME	EXPECTED field, due to subsequent systems, this value should not exceed 5 digits. This element is deprecated. Please use the new element LEADTIME in PRODUCT_LOGISTIC_DETAILS/DELIVERY_TIMES

SPECIAL_TREATMENT_CLASS 	According to BMECat, identifies article as dangerous substance. Fill „type“-attribute with ADR, GGVS or GGVE as specified for dangerous substances. Every article with a non-empty field will be marked as dangerous substance in the application. In that case you must attach at least the “EU material safety data sheet” and if available the “Standard operating instructions” as MIME. Use „data_sheet“ as MIME_PURPOSE In compliance with to the Ordinance on Hazardous Substances, an up-to-date safety data sheet according to the preparation guide line must be attached (MIME). The operating instruction attachment (MIME) can be provided as a sample, derived from the instructions made up by the supplier/manufacturer for its own personnel for handling the product.
KEYWORD	OPTIONAL field, please fill with descriptive Keywords for the article. These can be provided either by E.ON or the supplier (for example: mobile or handy for cell phone).
REMARKS	Only internally used by E.ON Czech and Slovakia. Please do not fill in any values.
SEGMENT	According to BMECat Should be filled with “SERVICE” to indicate that the item is part of the segment “Services” – otherwise please don’t use or left blank
PRODUCT_STATUS type=“core_product“ 	According to BMECat; products in stock can be labeled as such by using <PRODUCT _STATUS type=“core_product“>1</PRODUCT _STATUS> (user can sort or search this field).
PRODUCT_STATUS type=“preferred“ 	**NEW:** Preferred products can be labeled as such by using **<PRODUCT_STATUS type=“preferred“>1</PRODUCT_STATUS>** (user can sort this field).
TNC / PRODUCT / PRODUCT_FEATURES	
REFERENCE_FEATURE_SYSTEM_NAME	MANDATORY, fill with “ECLASS-7.0” or “ECLASS-5.1” (Selection must be maintained, no mixing of versions!)
REFERENCE_FEATURE_GROUP_ID 	MANDATORY, this field is to be filled with the associated eClass category-ID. Please note: the id should be provided without dashes, i.e. use “24110301” instead of “24-11-03-01“. Additionally, do not use eClass-codes ending with “00“.
TNC / PRODUCT / PRODUCT_FEATURES / FEATURE	
FNAME	With the support of eClass 7.0, **eClass Features are no longer supported** and will be ignored during processing.

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FVALUE	With the support of eClass 7.0, **eClass Features are no longer supported** and will be ignored during processing.
FUNIT	With the support of eClass 7.0, **eClass Features are no longer supported** and will be ignored during processing.
TNC / PRODUCT / PRODUCT_ORDER_DETAILS	
ORDER_UNIT	According to BMECat Please note: To ensure automatic processing of the catalog, use only allowed ISO-codes according to the appendix.
CONTENT_UNIT	According to BMECat but REQUIRED if NO_CU_PER_OU is used. Please note: To ensure automatic processing of the catalog, use only allowed ISO-codes according to the appendix.
NO_CU_PER_OU	According to BMECat but REQUIRED if CONTENT_UNIT is used.
PRICE_QUANTITY	According to BMECat. This field specifies the amount of order units, for which the price is defined. Its purpose is not to specify the minimum order quantity or the amount of content units in a order unit.
QUANTITY_MIN	According to BMECat Please note: This value controls the minimum amount a catalog-user can order of this item. It is checked before the shopping cart is submitted.
QUANTITY_INTERVAL	According to BMECat Please note: This value is displayed to the catalog user. It is not guaranteed that orders are placed that differ from this value.
TNC / PRODUCT / PRODUCT_PRICE_DETAILS	
VALID_START_DATE	According to BMECat. The previous definition as DATETIME is deprecated, please use the new element VALID_START_DATE instead.
VALID_END_DATE	According to BMECat. Analogous to prevois element.
TNC / PRODUCT / PRODUCT_PRICE_DETAILS / PRODUCT_PRICE	Only use price_type="net_customer"
PRICE_AMOUNT	According to BMECat Please note: Period is decimal separator. Always use at least two decimal digits (5.00 instead of 5).
PRICE_CURRENCY	According to BMECat Please note: Prices must be specified in Euro.

TAX	MANDATORY-Field. TAX must be filled correctly to ensure processing in following sytems. Please note: Period is decimal separator instead of comma, “0.19” corresponds to 19 of hundred.
LOWER_BOUND	According to BMECat
TNC / PRODUCT / PRODUCT_LOGISTIC_DETAILS	
LEADTIME 	EXPECTED field, due to subsequent systems, this value should not exceed 5 digits. Use this element instead of the former DELIVERY_TIME element.
TNC / PRODUCT / MIME_INFO / MIME	Any article may have multiple file attachments (e.g. pictures, pdf-data-sheets, etc.).
MIME_TYP	According to BMECat but required if MIME_SOURCE is used.
MIME_SOURCE	According to BMECat; all filenames in lower case – identical notation required for MIME_ROOT / MIME_SOURCE and file names.
MIME_DESCR 	According to BMECat;This text will be displayed to the catalog user as label for the linked file. Please use a meaningful description.
MIME_PURPOSE 	According to BMECat but required if MIME_SOURCE is used. The standard picture must be of the type “normal“. Any article can only have one MIME with MIME_PURPOSE=”normal”. Every article should have a standard picture. If no picture with purpose “normal” is defined for an article, no picture will be displayed in the detail view. Format restrictions: JPEG with 24 bit colour depth, resolution 72 dpi, default size: 280*350 pixels. (The size of additional pictures and documents should stay in a reasonable scope – please don’t include very big PDFs or high resolution images)
TNC / PRODUCT / PRODUCT_REFERENCE	According to BMECat
PROD_ID_TO 	According to BMECat
CATALOG_ID	According to BMECat; only references to articles within this catalog and version are allowed.
CATALOG_VERSION	According to BMECat; only references to articles within this catalog and version are allowed.

TNC / PRODUCT_TO_CATALOGGROUP_MAP	Not used, cp. PRODUCT_FEATURES / REFERENCE_FEATURE_SYSTEM_NAME and REFERENCE_FEATURE_GROUP_IP

8 Appendix

Allowed values for BUYER_PID

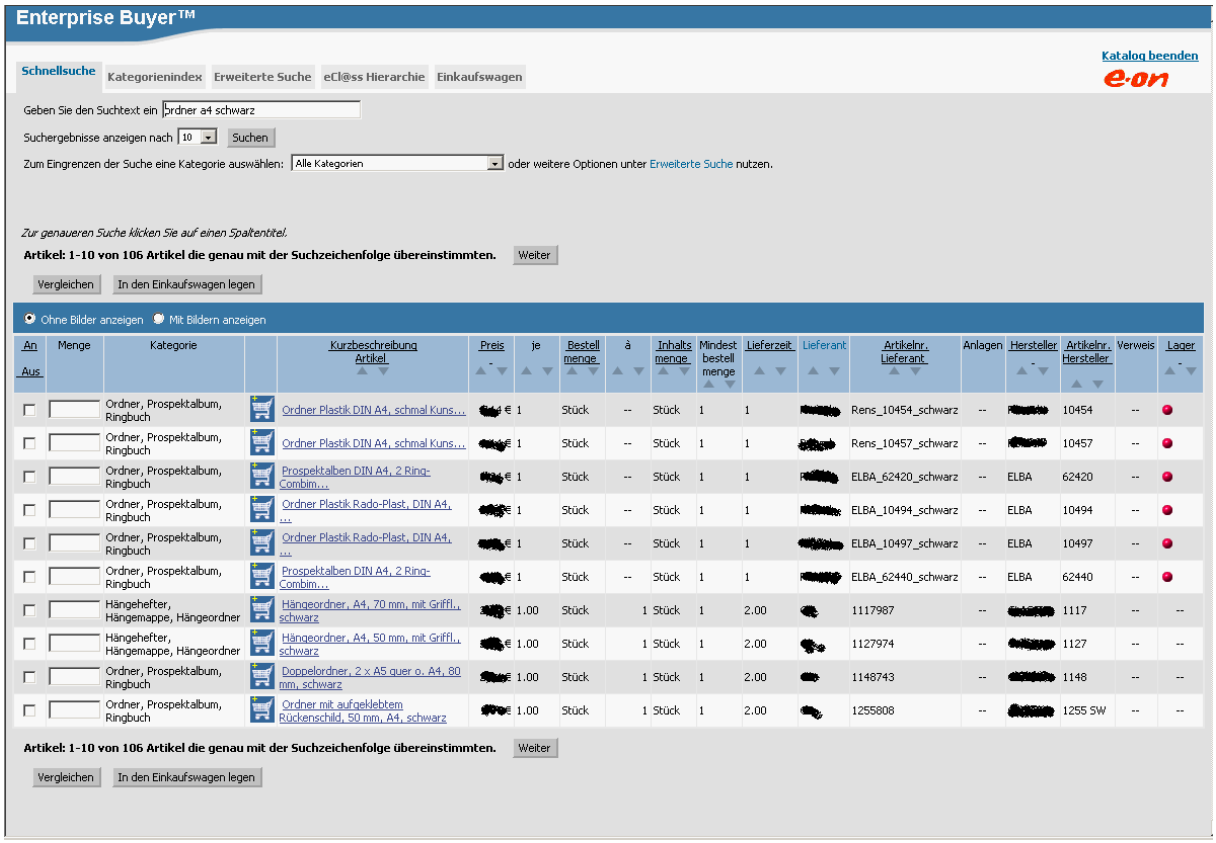
eea_zen_mat	Central SAP Material Code E.ON Energie AG
emi_zen_mat	SAP Material Code E.ON Mitte
erg_zen_mat	SAP Material Code OGE Open Grid Europe
ewa_zen_mat	SAP Material Code E.ON Westfalen Weser
ehu_zen_mat	SAP Material Code E.ON Hungary
zse_zen_mat	SAP Material Code E.ON Slovakia
eit_zen_mat	SAP Material Code E.ON Italy
sve_zen_mat	SAP Material Code E.ON Sverige

ISO Codes for ORDER_UNIT and CONTENT_UNIT

ISOCODE	ISOTXT
97	Hobbock
BE	Bundle
BG	Bag
BJ	Bucket
BO	Bottle
BX	Box
CA	Can
CMT	Centimeter
CR	Crate
CS	Case
CT	Carton
DR	Drum
GRM	Gram
HUR	Hour
KGM	Kilogram
LEF	Leaf
LTR	Litre
MC	Microgram
MGM	Milligram
MLT	Millilitre
MTK	Square meter
MTR	Meter
PA	Packet
PCE	Piece
PD	Pad
PF	Pallet
PK	Package
PR	Pair
RO	Roll
SET	Set
ST	Sheet
TU	Tube
VQ	Bulk
WEE	Week

9 Illustrations Catalog User Interface

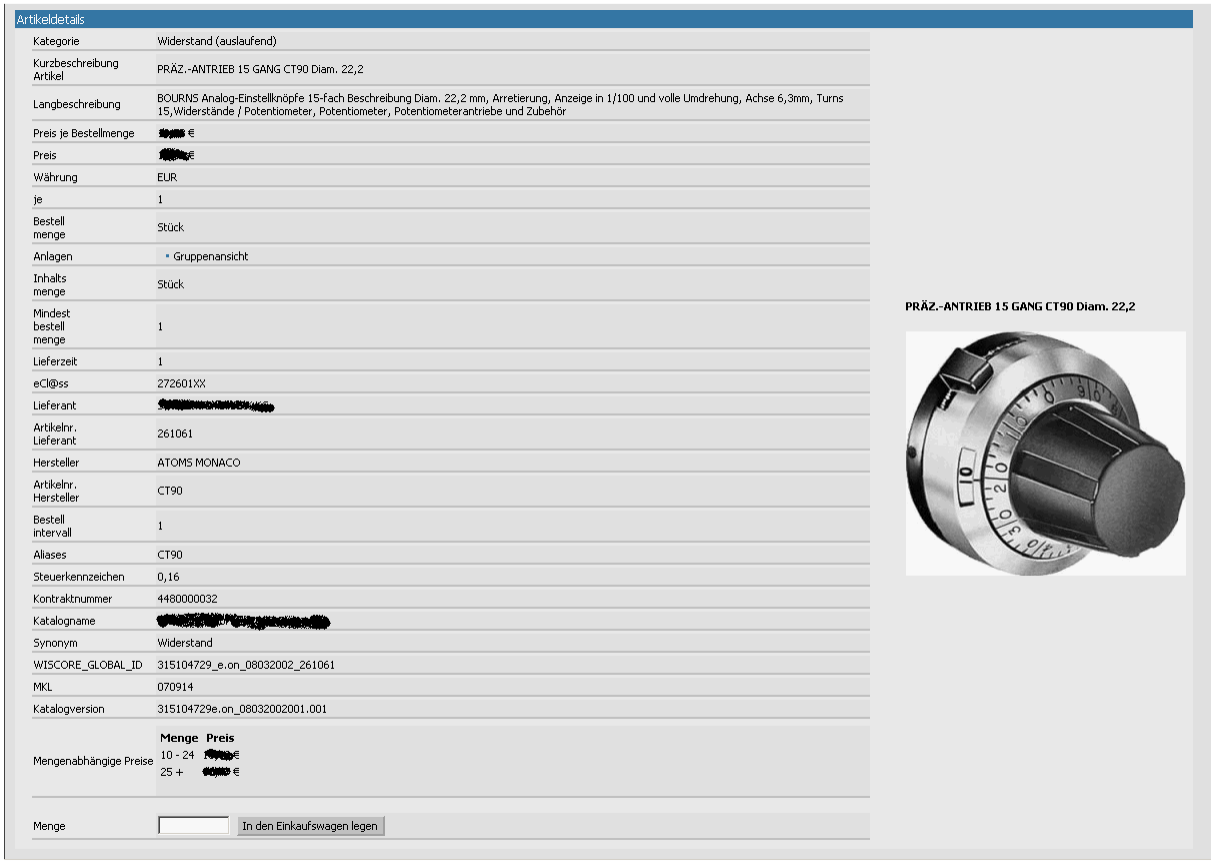
Display of Search Result



Mapping between displayed attributes and BMECat:

Kategorie	REFERENCE_FEATURE_GROUP_ID
Kurzbeschreibung	DESCRIPTION_SHORT
Preis	PRICE_AMOUNT
Je	PRICE_QUANTITIY
Bestellmenge	ORDER_UNIT (übersetzter ISO-Code)
á	NO_CU_PER_OU
Inhaltsmenge	CONTENT_UNIT
Mindestbestellmenge	QUANTITY_MIN
Lieferzeit	DELIVERY_TIME
Lieferant	SUPPLIER_NAME
Artikelnummer	SUPPLIER_PID
Anlagen	MIME_DESCRIPTION (sofern nicht Standardbild)
Hersteller	MANUFACTURER_NAME
Artikelnr. Hersteller	MANUFACTURER_PID
Verweis	PRODUCT_ID_TO
Lager	PRODUCT_STATUS type= „core_product“

Product Detail with volume pricing



Additional attributes and mapped BMECat elements:

Langbeschreibung	DESCRIPTION_LONG
Preis je Bestellmenge	PRICE_AMOUNT divided by PRICE_QUANTITY
Währung	CURRENCY
eCl@ss	REFERENCE_FEATURE_GROUP_ID
Bestellintervall	QUANTITY_INTERVAL
Alias	KEYWORDS
Steuerkennzeichen	TAX
Kontraktnummer	AGREEMENT_ID
Katalogname	CATALOG_NAME
Synonym	eClass-Keywords (added automatically)
WISCORE_GLOBAL_ID	SUPPLIER_ID + CATALOG_ID + SUPPLIER_PID
Ec5p	E-Class 5.1 plus VEBA Material number (added automatically)
Katalogversion	SUPPLIER_ID + CATALOG_ID + CATALOG_VERSION
Mengenabhängige Preise	PRICE_AMOUNT divided by PRICE_QUANTITY, LOWER_BOUND

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